

JAN 11 2002

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s):

Brian J. STOCKMAN

Group Art Unit: 1645

Serial No.:

09/829,872

Examiner: Unknown

Confirmation No.: 7416

Docket No.: 6311.N

(M&R 268.6311 0101)

Filed:

10 April 2001

Title:

NUCLEAR MAGNETIC RESONANCE METHODS FOR IDENTIFYING SITES IN
PAPILLOMAVIRUS E2 PROTEIN

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Assistant Commissioner for Patents
Washington, D.C. 20231

We are transmitting the following documents along with this Transmittal Sheet (which is submitted in triplicate):

- An itemized return postcard.
- A Petition for Extension of Time for ___ month(s) and a check in the amount of \$___ for the required fee.
- An Information Disclosure Statement (3 pgs); copies of 2 applications; 1449 forms (11 pgs); and copies of 129 documents cited on the 1449 forms.
- A check in the amount of \$___, for ___.
- A certified copy of a ___ application, Serial No. ___, filed _____, the right of priority of which is claimed under 35 U.S.C. §119.
- Other:
- Amendment ___ No Additional fee is required. ___ The fee has been calculated as shown:

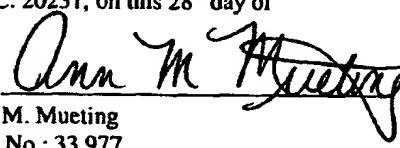
Fee Calculation for Claims Pending After Amendment					
	Pending Claims after Amendment (1)	Claims Paid for Earlier (2)	Number of Additional Claims (1-2)	Cost per Additional Claim	Additional Fees Required
Total Claims				x \$18 =	
Independent Claims				x \$84 =	
One or More New Multiple Dependent Claims Presented? If Yes, Add \$280 Here →					
Total Additional Claim Fees Required					

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Information Disclosure Statement

Page 2 of 3

Applicant(s): Brian J. STOCKMAN

Serial No.: 09/829,872

Confirmation No.: 7416

Filed: 10 April 2001

For: NUCLEAR MAGNETIC RESONANCE METHODS FOR IDENTIFYING SITES IN PAPILLOMAVIRUS E2
PROTEIN**BEST AVAILABLE COPY****List of Pending Non-Published U.S. Patent Applications**

Applicant(s)	Application Number	Filing Date	Serial No. of Provisional Application to which listed Application claims priority
Stockman et al.	09/677,107	09/29/00	60/156,818, filed 9/29/99; 60/161,682, filed 10/26/99; 60/192,685, filed 3/28/00
Stockman et al.	unassigned (CIP of 09/677,107)	11/19/01	60/156,818, filed 9/29/99; 60/161,682, filed 10/26/99; 60/192,685, filed 3/28/00

It is believed that no fee is due, as this Information Disclosure Statement is filed prior to the receipt of any Action on the merits. However, in the event a fee is due, please charge any fee or credit any overpayment to Account No. 13-4895.

Information Disclosure Statement

Applicant(s): Brian J. STOCKMAN

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PROTEIN

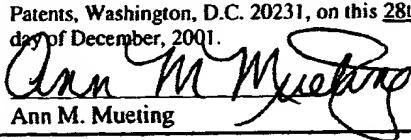
Page 3 of 3

The Examiner is invited to contact Applicant's Representatives at the below-listed telephone number, if they can be of any assistance during prosecution of the present application.

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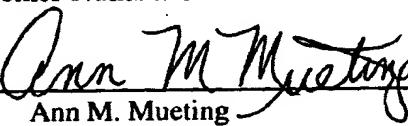
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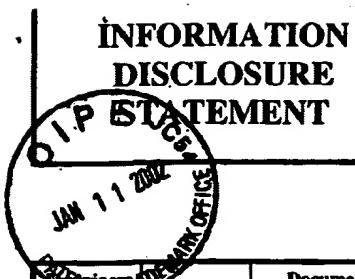

Ann M. Mueting

December 28, 2001

Date

Respectfully submitted for
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U.S. PATENT DOCUMENTS

Initial	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
	4,719,582	01/12/88	Ishida et al.			
	5,270,163	12/14/93	Gold et al.			
	5,306,619	04/26/94	Edwards et al.			
	5,668,734	09/16/97	Krishna et al.			JAN 15 2002
	5,698,401	12/16/97	Fesik et al.			TECH CENTER 1600/2200
	5,804,390	09/08/98	Fesik et al.			
	5,837,460	11/17/98	Von Feldt et al.			
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	5,891,643	04/06/99	Fesik et al.			
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	6,043,024	03/28/00	Fesik et al.			
	6,214,561	04/10/01	Peters et al.			

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FOREIGN PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Country	Class	Subclass	Translation	
						Yes	No
	DE 196 49 359 C1	02/12/98	Germany (with English language abstract)				X
	EP 0 592 816 A1, B1	04/20/94	EPO (with English language abstract)				X
	GB 2 316 941 A	03/11/98	United Kingdom				
	GB 2 321 104 A	07/15/98	United Kingdom				
	WO 91/10140	07/11/91	WIPO				
	WO 91/17428	11/14/91	WIPO				
	WO 93/00446	01/07/93	WIPO				
	WO 94/14980	07/07/94	WIPO				
	WO 96/30849	10/03/96	WIPO				

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WO 96/30849	10/03/96	WIPO				
WO 97/00244	01/03/97	WIPO				
WO 97/18469	05/22/97	WIPO				
WO 97/18471	05/22/97	WIPO				
WO 98/46548	10/22/98	WIPO				
WO 98/48264	10/29/98	WIPO				
WO 98/57155	12/17/98	WIPO				
WO 99/09024	02/25/99	WIPO				
WO 99/17616	04/15/99	WIPO				
WO 99/36422	07/22/99	WIPO				
WO 99/43643	09/02/99	WIPO				

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OTHER DOCUMENTS (Including Authors, Title, Date, Pertinent Papers, etc.)

Examiner Initial	Document Description
	Ajay et al., "Can We Learn To Distinguish between "Drug-like" and "Nondrug-like" Molecules?" <i>Journal of Medicinal Chemistry</i> , 41(18):3314-3324 (1998).
	Anderson et al., "Affinity NMR: Decoding DNA Binding," <i>Journal of Combinatorial Chemistry</i> , 1(1):69-72 (1999).
	Balaram et al., "Localization of Tyrosine at the Binding Site of Neurophysin II by Negative Nuclear Overhauser Effects," <i>Journal of the American Chemical Society</i> , 94(11): 4017-4018 (1972).
	Barjat et al., "High-Resolution Diffusion-Ordered 2D Spectroscopy (HR-DOSY) - A New Tool for the Analysis of Complex Mixtures," <i>Journal of Magnetic Resonance, Series B</i> , 108:170-172 (1995).
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	Belton et al., "Application of chemometrics to the ¹ H NMR spectra of apple juices: discrimination between apple varieties," <i>Food Chemistry</i> , 61(1/2):207-213 (1998).

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	Bemis et al., "The Properties of Known Drugs. 1. Molecular Frameworks," <i>Journal of Medicinal Chemistry</i> , 39(15):2887-2893 (1996).	JAN 15 2007
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	Dalvit et al., "Identification of compounds with binding affinity to proteins via magnetization transfer from bulk water," <i>Journal of Biomolecular NMR</i> , 18(1):65-68 (2000).
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	Detlefsen et al., "Molecular Flexibility Profiling Using NMR Spectroscopy," <i>Current Medicinal Chemistry</i> , 6(5):353-358 (1999).
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Examiner Initials <i>MAH</i>	Document Description
	Freeman et al., "Proton-detected ¹⁵ N NMR spectroscopy and imaging," EPO abstract, XP 002029543, from <i>Journal of Magnetic Resonance, Series B</i> , 102(2):183-192, 1 page (1993).
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	Henrichsen et al., "Bioaffinity NMR Spectroscopy: Identification of an E-Selectin Antagonist in a Substance Mixture by Transfer NOE," <i>Angewandte Chemie, International Edition</i> , 38(1/2):98-102 (1999).

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Examiner Initial	Document Description
	Holmes et al., "Development of a model for classification of toxin-induced lesions using ¹ H NMR spectroscopy of urine combined with pattern recognition," <i>NMR in Biomedicine</i> , 11(4-5):235-244 (1998).
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	Keifer, "High-resolution NMR techniques for solid-phase synthesis and combinatorial chemistry," <i>Drug Discovery Today</i> , 2(11):468-478 (1997).
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	Keifer, "NMR tools for biotechnology," <i>Current Opinion in Biotechnology</i> , 10(1):34-41 (1999).
	Keifer et al., "Direct-Injection NMR (DI-NMR): A Flow NMR Technique for the Analysis of Combinatorial Chemistry Libraries," <i>Journal of Combinatorial Chemistry</i> , 2(2):151-171 (2000).
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REF ID: A65111600932900

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	Lin et al., "Screening Mixtures by Affinity NMR," <i>Journal of Organic Chemistry</i> , 62(25):8930-8931 (1997).
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	Liu et al., "High-Resolution Diffusion and Relaxation Edited One- and Two-Dimensional ¹ H NMR Spectroscopy of Biological Fluids," <i>Analytical Chemistry</i> , 68(19):3370-3376 (1996).
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	JAN 11 2004	Morris et al., "Resolution of Discrete and Continuous Molecular Size Distributions by Means of Diffusion-Ordered 2D NMR Spectroscopy," <i>Journal of the American Chemical Society</i> , 115(10):4291-4299 (1993).
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		Nicholson et al., "'Metabonomics': understanding the metabolic responses of living systems to pathophysiological stimuli via multivariate statistical analysis of biological NMR spectroscopic data," <i>Xenobiotica</i> , 29(11):1181-1189 (1999).
		Pearlman et al., "Novel Software Tools for Chemical Diversity," <i>Perspectives in Drug Discovery and Design</i> , 09/10/11:339-353 (1998).
		Phelps et al., "Molecular targets for human papillomaviruses: prospects for antiviral therapy," <i>Antiviral Chemistry & Chemotherapy</i> , 9(5):359-377 (1998).
		Piotto et al., "Gradient-tailored excitation for single-quantum NMR spectroscopy of aqueous solutions," <i>Journal of Biomolecular NMR</i> , 2(6):661-665 (1992).
		Ponstingl et al., "Detection of protein-ligand NOEs with small, weakly binding ligands by combined relaxation and diffusion filtering," <i>Journal of Biomolecular NMR</i> , 9:441-444 (1997).
		Rabenstein et al., "A Pulse Sequence for the Measurement of Spin-Lattice Relaxation Times of Small Molecules in Protein Solutions," <i>Journal of Magnetic Resonance</i> , 34:669-674 (1979).
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		Ross et al., "Automation of NMR measurements and data evaluation for systematically screening interactions of small molecules with target proteins," <i>Journal of Biomolecular NMR</i> , 16(2):139-146 (2000).
		Sadowski et al., "A Scoring Scheme for Discriminating between Drugs and Nondrugs," <i>Journal of Medicinal Chemistry</i> , 41(18):3325-3329 (1998).
		Scherf et al., "A T _{1ρ} -filtered two-dimensional transferred NOE spectrum for studying antibody interactions with peptide antigens," <i>Biophysical Journal</i> , 64(3):754-761 (1993).
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<i>JAN 11 2002</i> <i>PATENT & TRADEMARK OFFICE</i>	Shapiro et al., "High resolution NMR for screening ligand/protein binding," <i>Current Opinion in Drug Discovery & Development</i> , 2(4):396-400 (1999).
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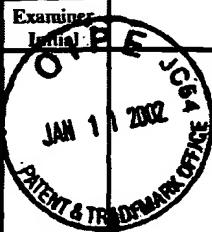
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	Applicant(s): Brian J. STOCKMAN	Confirmation No.: 7416
	Filing Date: 10 April 2001	Group: 1645

Examiner Initials 	Document Description
	Wang et al., "Solution Studies of Staphylococcal Nuclease H124L. 2. ¹ H, ¹³ C, and ¹⁵ N Chemical Shift Assignments for the Unligated Enzyme and Analysis of Chemical Shift Changes that Accompany Formation of the Nuclease-Thymidine 3', 5'-Bisphosphate-Calcium Ternary Complex," <i>Biochemistry</i> , 31(3):921-936 (1992).
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	Wolfender et al., "LC/NMR in Natural Products Chemistry," <i>Current Organic Chemistry</i> , 2(6):575-596 (1998).
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